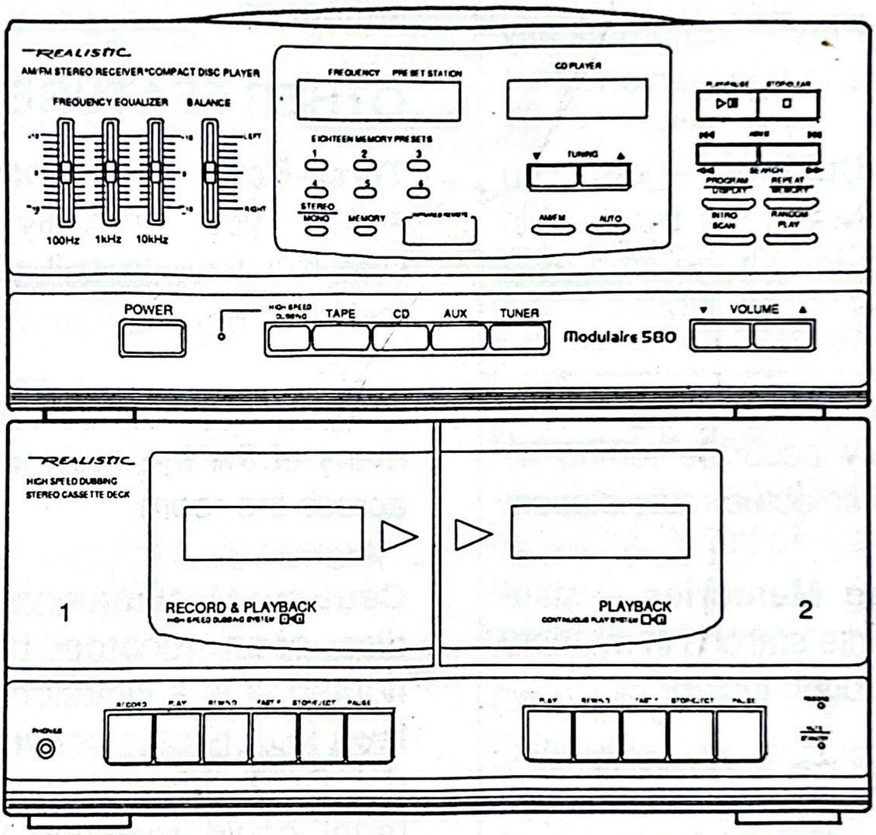
OWNER'S MANUAL

Modulaire 580

Compact Disc Player
High Speed Dubbing Cassette Deck
Digital AM/FM Stereo Tuner
Remote Control


REALISTIC
AM/FM STEREO RECEIVER•COMPACT DISC PLAYER
FREQUENCY EQUALIZER
BALANCE
LEFT
RIGHT
100Hz
1kHz
10kHz
FREQUENCY
PRESET STATION
EIGHTEEN MEMORY PRESETS
1
2
3
4
5
6
STEREO
MONO
MEMORY
CD PLAYER
TUNING
AM/FM
AUTO
PLAY/PAUSE
STOP/CLEAR
SEARCH
PROGRAM DISPLAY
REPEAT MEMORY
INTRO SCAN
RANDOM PLAY
POWER
HIGH SPEED DUBBING
TAPE
CD
AUX
TUNER
Modulaire 580
VOLUME
REALISTIC
HIGH SPEED DUBBING
STEREO CASSETTE DECK
1
RECORD & PLAYBACK
HIGH SPEED DUBBING SYSTEM
2
PLAYBACK
CONTINUOUS PLAY SYSTEM
RECORD
PLAY
REWIND
FAST F
STOP/EJECT
PAUSE
PHONES
PLAY
REWIND
FAST F
STOP/EJECT
PAUSE

Please read before using this equipment.

Cat. No.13-1252

REALISTIC®

FEATURES

Your Realistic Modulaire 580 includes a precision AM/FM stereo tuner, a dual cassette deck (for recording, consecutive play, or dubbing), a compact disc player, two speakers, and a remote control. The system also includes the following features.

CASSETTE DECK AND TUNER FEATURES

Continuous Play — automatically plays two tapes in succession.

High-Speed Dubbing — lets you copy tapes between the two built-in cassette decks in half the time as a normal copy.

Digital Synthesized Tuning — provides extremely accurate tuning by locking in on a selected radio station.

Preset Tuning Memories — store 18 of your favorite stations in memory for quick, one-button tuning.

CD PLAYER FEATURES

Sequence Programming — lets you program the CD player to play up to 20 tracks in any order you want.

Automatic Search Music System — quickly locates and plays any track on a CD.

Repeat Play — repeats the current track on a CD, the entire CD, or a programmed sequence of tracks.

Synchro-Start Recording — automatically starts playing a CD when you press the tape deck's record button.

Automatic Random Play — plays all the tracks on a CD in a random sequence.

OTHER FEATURES

Three-Band Frequency Equalizer — lets you precisely adjust the system's tone to suit your personal taste.

Remote Control — lets you control many of the system's functions from across the room.

Caution: Most material on compact discs or pre-recorded tapes is copyrighted. It is a violation of copyright laws to duplicate copyrighted material. Duplication of copyrighted material could result in fines and/or imprisonment.

Read this manual carefully to get the most enjoyment from your music system.

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FCC INFORMATION

Your system complies with the limits for a Class B digital device as specified in part 15 of *FCC Rules.* These limits provide reasonable protection against radio and TV interference in a residential area. However, your system might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the system and the radio or TV.
- Use different outlets for the system and the radio or TV.

Consult your local Radio Shack store or an experienced radio/TV technician if the problem still exists.

You must use shielded interface cables with this equipment.

For your permanent records, we suggest you record the music system's serial number in the provided space. The serial number is on the cassette deck's bottom panel.

Serial Number:____________________

⚡ CAUTION ⚠

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

⚠ THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THIS UNIT.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Danger: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

Caution: The use of controls, adjustments, or procedures other than specified herein may result in exposure to possible injury by laser light.

Warning: This system employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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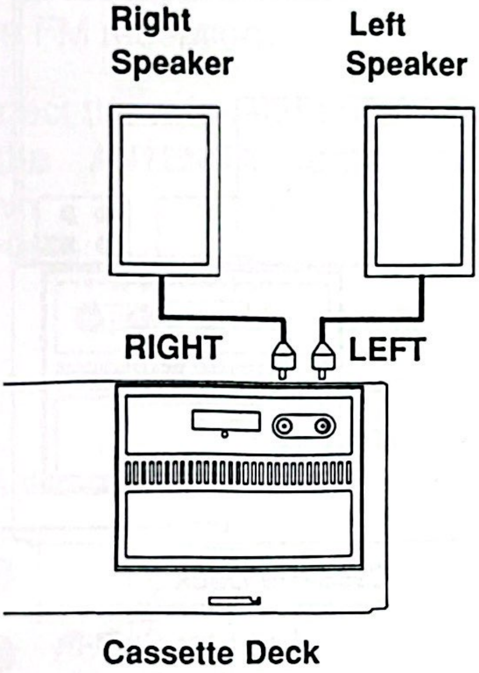
Be sure you complete all other connections to your system before you connect it to an AC outlet.

CONNECTING THE SPEAKERS

Follow these steps to connect the speakers.

1. Connect the right speaker wire's plug to your cassette deck's **RIGHT** speaker jack.
2. Connect the left speaker wire's plug to your cassette deck's **LEFT** speaker jack.



CHOOSING A LOCATION FOR THE SPEAKERS

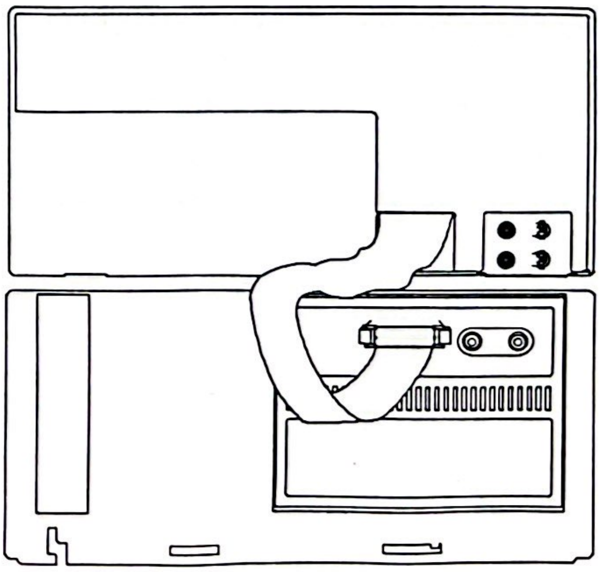
For the best sound, place a speaker on each side of the system so that the speakers are an equal distance from the system. A distance of 5 to 8 feet between the speakers usually provides the best stereo effect, but this can vary depending on the size and acoustics of your room and the distance between the speakers and the listening area.

Cautions:

- Use only the supplied speakers. Use of any other, or additional, speakers can damage the system.
- Never operate the system with the speakers disconnected.

CONNECTING THE AM/FM STEREO RECEIVER/CD PLAYER AND CASSETTE DECK

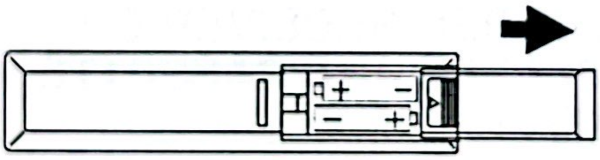
Connect the AM/FM Stereo Receiver/CD Player's control cable into the jack labeled connector on the back of the cassette deck.



INSTALLING THE REMOTE CONTROL'S BATTERIES

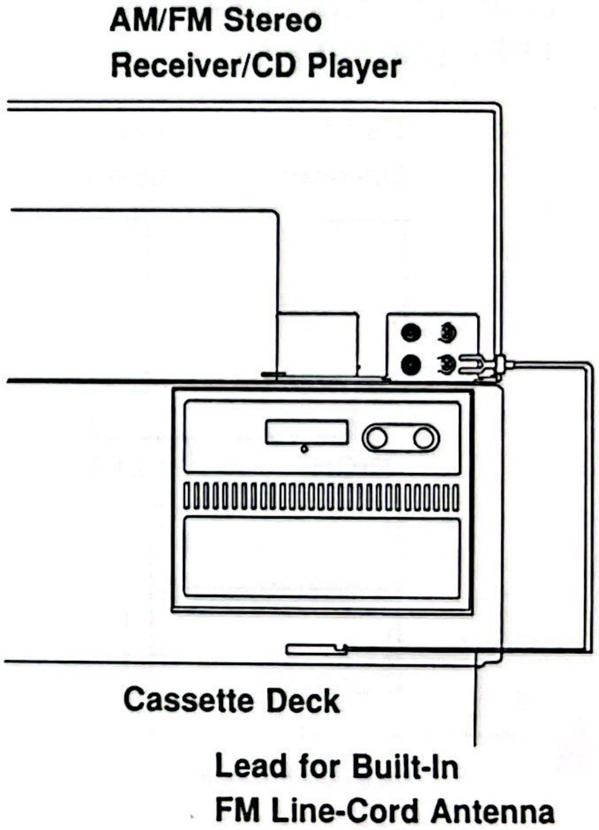
Your system's remote control uses two AAA batteries (not supplied). For best performance, we recommend alkaline batteries, such as Radio Shack Cat. No. 23-555. If the remote control does not operate the system, replace the batteries.

1. Remove the battery compartment cover by pressing it in the direction of the arrow.
2. Install two new AAA batteries, observing the polarity symbols (+ and –) marked in the compartment.
3. Replace the compartment cover.



CONNECTING THE LEAD FOR THE BUILT-IN FM LINE-CORD ANTENNA

Your system has a built-in FM line-cord antenna. This antenna should be adequate for FM reception in most metropolitan areas. To use this antenna, connect the lead extended from the back of the cassette deck to either side of **FM ANTENNA** terminals located on the back of the AM/FM Stereo Receiver/CD Player.



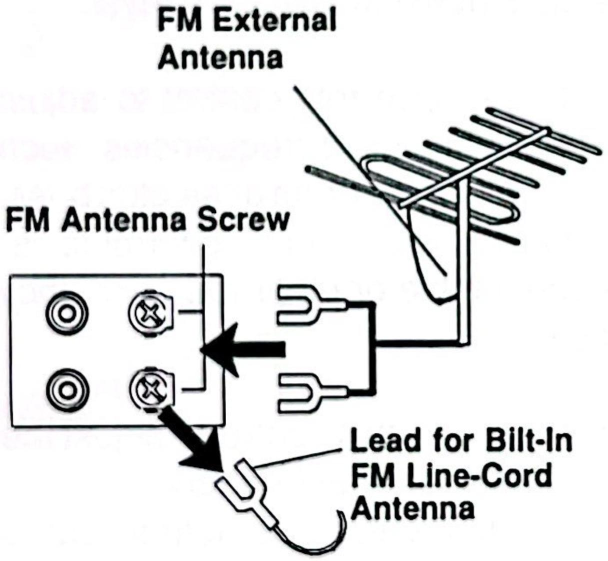
CONNECTING AN EXTERNAL FM ANTENNA

If FM reception is poor, you can connect an external 300-ohm antenna to the **ANTENNA** terminals on the AM/FM Stereo Receiver/CD Player's back panel. Be sure to disconnect the FM line-cord antenna's lead before you install an external antenna.

You can connect an FM dipole antenna, a set of *rabbit ears*, an outdoor antenna, or an antenna specifically designed for FM reception.

Your local Radio Shack store sells a wide selection of antennas that improve FM reception.

Connect the twin-lead antenna wire to the **ANTENNA** terminals, as shown.

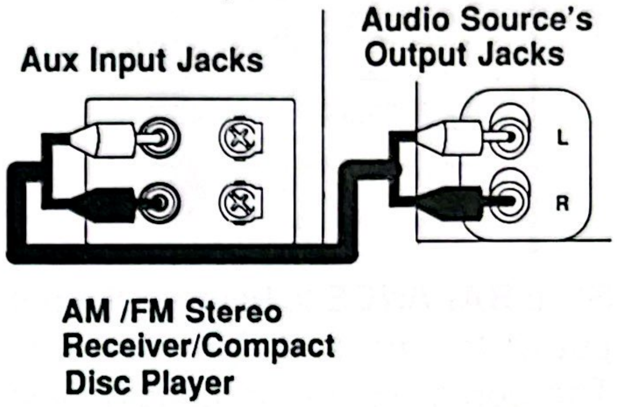

FM External Antenna
FM Antenna Screw
Lead for Bilt-In FM Line-Cord Antenna

Notes:

- If you use 75-ohm coaxial cable with your antenna, you must use a 75-to-300-ohm matching transformer to connect the antenna to your music system. Radio Shack carries the necessary transformer (Cat. No. 15-1140).
- If you install an external antenna, follow all safety precautions that come with the antenna.

CONNECTING AN AUXILIARY COMPONENT

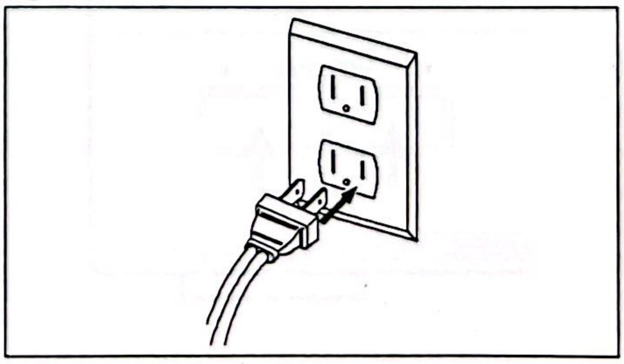
If you have another audio source, such as a VCR or a TV with audio outputs, you can play it through your system. Use shielded audio cables (not supplied) to connect the source's left and right audio output jacks to the **AUX** input jacks on the back of the system.


Aux Input Jacks
Audio Source's Output Jacks
L
R
AM /FM Stereo Receiver/Compact Disc Player

Note: The **AUX** jacks are designed for high-level audio sources. If you want to connect a turntable, you need a pre-amplifier such as Radio Shack Cat. No. 42-2109.

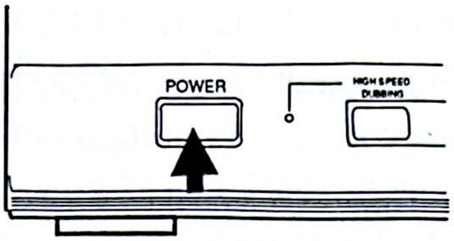
CONNECTING TO POWER

Plug the system's AC power cord into a standard AC outlet. The **MUTE/STANDBY** indicator on the front panel lights.



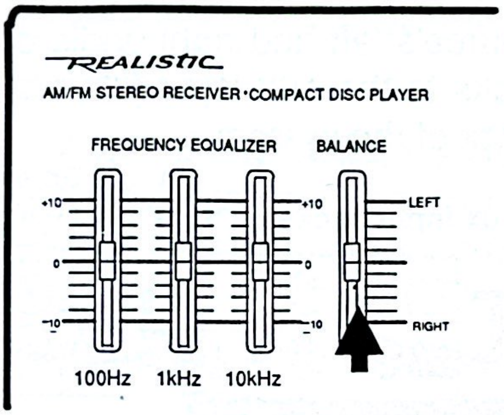
OPERATION

Press **POWER** to turn on the system.


POWER
HIGH SPEED DUBBING

The **MUTE/STANDBY** indicator turns off when you turn on the power.

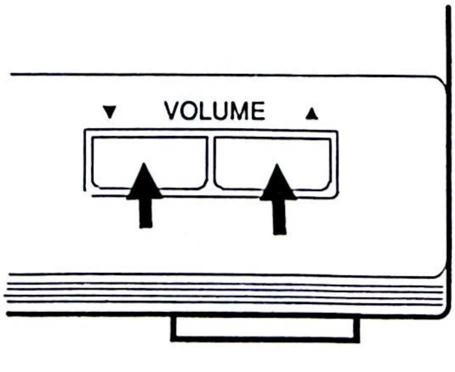
ADJUSTING THE BALANCE


REALISTIC
AM/FM STEREO RECEIVER·COMPACT DISC PLAYER
FREQUENCY EQUALIZER
BALANCE
+10
0
-10
+10
0
-10
LEFT
RIGHT
100Hz
1kHz
10kHz

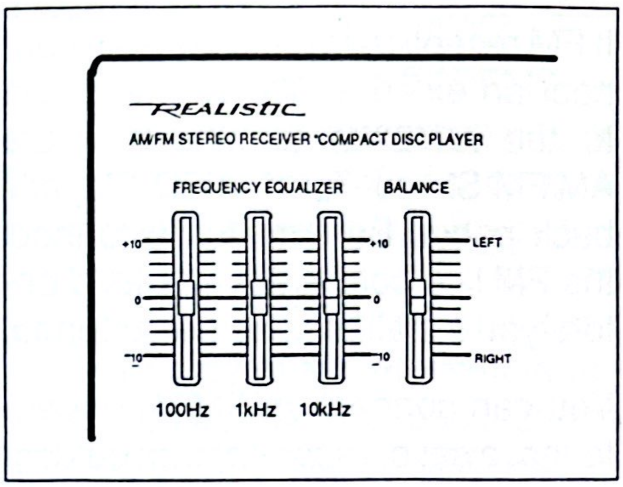
Slide **BALANCE** to balance the output of the left and right speakers. The center setting is usually best, but if the main listening area is not an equal distance from both speakers, adjust **BALANCE** so the sound seems to come from halfway between the speakers.

ADJUSTING THE VOLUME

Press **VOLUME DOWN** or **UP** to decrease or increase the volume.



ADJUSTING THE FREQUENCY EQUALIZER


REALISTIC
AM/FM STEREO RECEIVER·COMPACT DISC PLAYER
FREQUENCY EQUALIZER
BALANCE
+10
0
-10
+10
0
-10
LEFT
RIGHT
100Hz
1kHz
10kHz

Adjust the three **FREQUENCY EQUALIZER** controls to customize the sound to suit your personal taste. You can adjust the tone for three frequency ranges. Set the control to its center position if you do not want to change the level for that frequency range. Slide the control up to boost the level of the indicated frequency range; slide it down to lower the level.

100 Hz — Use this control to adjust the level of lower frequencies, such as from a bass drum or electric bass. You can also use this control to reduce rumble or other low-frequency noise.

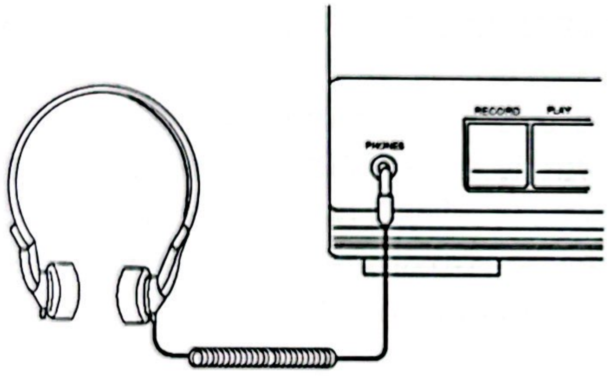
1 kHz — Use this control to adjust the level of midrange frequencies, such as from vocals. The human ear is most sensitive to this range.

10 kHz — Use this control to adjust the level of high frequencies, such as from cymbals, flutes, or violins.

USING STEREO HEADPHONES

You can listen in privacy using a pair of stereo headphones (not supplied).

Insert the headphone cord's ⅛-inch plug into the **PHONES** jack. The speakers disconnect internally when you connect the headphones. Your local Radio Shack store sells a wide selection of headphones and ¼-to-⅛-inch headphone plug adapters.



Caution: To prevent damage to the headphones and to protect your ears from excessive volume levels, always set the volume to the lowest level before you connect headphones. After you start the sound source, adjust the volume for a comfortable listening level.

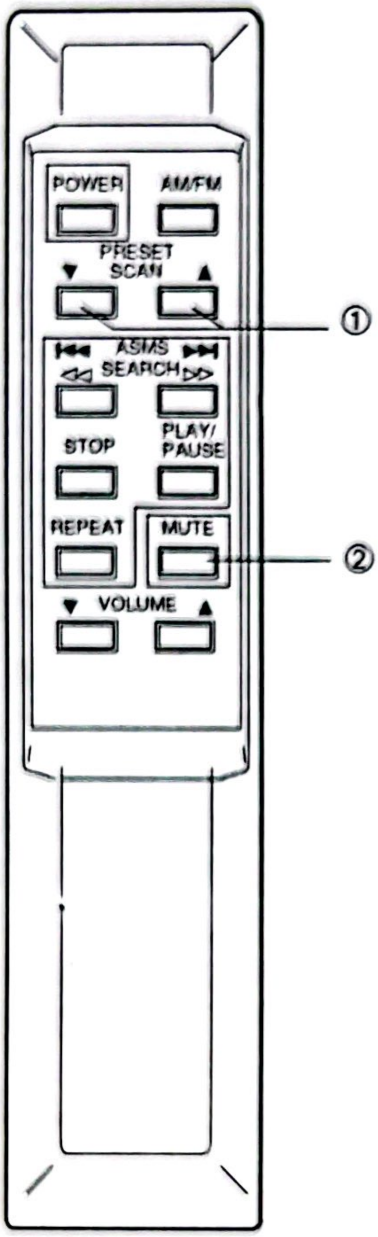
Hearing Comfort and Your Health

Do not listen at extremely high volume levels, especially when using headphones. Extended, high-volume listening can lead to permanent hearing loss.

USING THE REMOTE CONTROL

The remote control's buttons have identical functions to the similarly marked buttons on the main system.

The following buttons/functions appear only on the remote control.



① **PRESET SCAN ▲ and ▼** — automatically scans up or down through the programmed stations in the selected band, and stops on each station for about 5 seconds. To stop auto-scanning, press the button again when the desired station appears. If you do not stop scanning, the tuner continues to scan all programmed stations.

② **MUTE** — press this button once to silence the system. The **MUTE/STANDBY** indicator lights.Press this button again or press either volume button to cancel muting.

To use the remote control, point it directly at **INFRARED REMOTE** on the system's front panel. There should be no obstructions between the transmitter and the sensor.

Direct sunlight on the **INFRARED REMOTE** sensor or weak batteries might reduce the remote control's operating range.

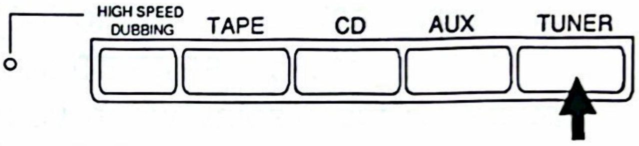
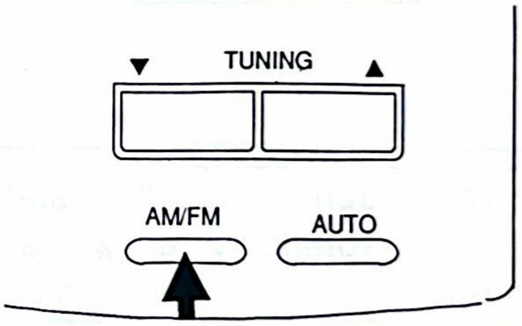
Caution: If you are not going to use the remote control for several days, remove the batteries. Weak batteries can leak chemicals that will damage the remote control.

USING THE TUNER

You can tune to a radio station using manual tuning, automatic search tuning, or memory tuning.

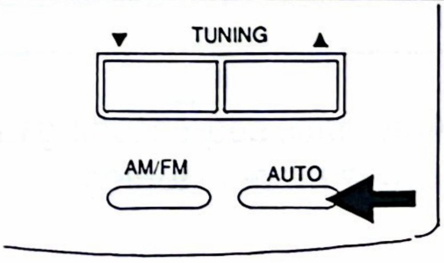
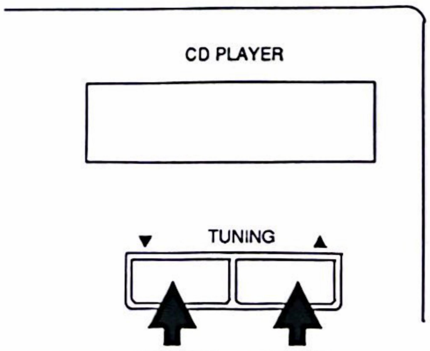
Note: If stereo reception for a weak FM station is poor, press **STEREO/MONO**. **STEREO** disappears. The sound is no longer stereo, but the reception improves. To return to stereo, press **STEREO/MONO** again so **STEREO** reappears.

Follow these steps to operate the tuner.

1. Press **TUNER** to select the tuner.	
2. Press **AM/FM** to select the desired band. The display shows the selected band (**AM**, **FM1**, or **FM2**).	

Manual Tuning

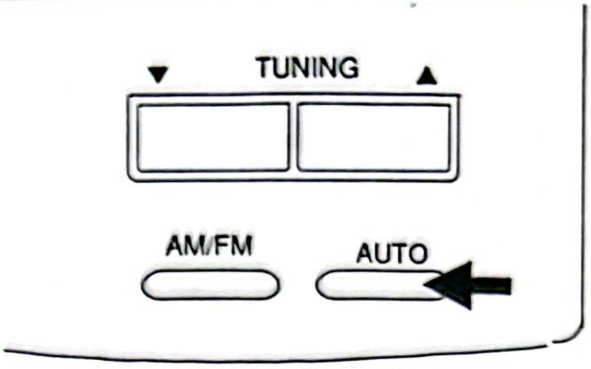
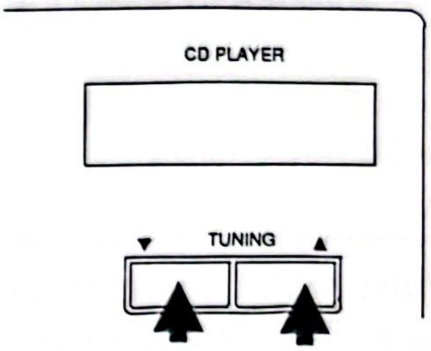
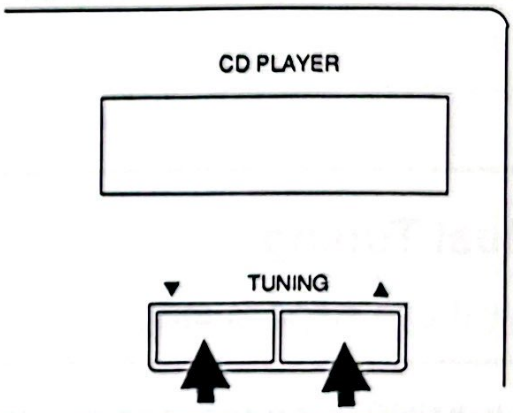
Follow these steps to manually tune to a station.

1. If **AUTO** is on the display, press **AUTO** to turn off automatic tuning.	
2. Press and hold down **TUNING** ▼ or ▲ to tune to the desired station. When the tuner gets close to the desired frequency, release the button. Then repeatedly press the button to tune to the station.	

Scanned with CamScanner

Automatic Search Tuning

Follow these steps to use automatic search tuning.

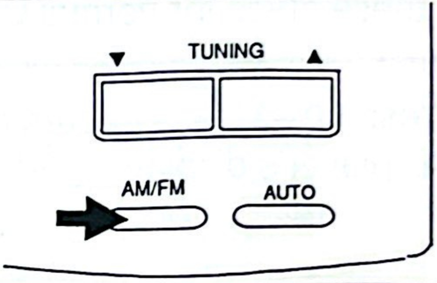
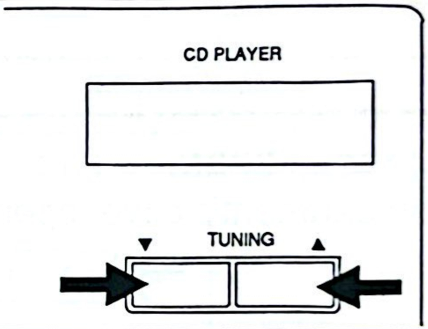
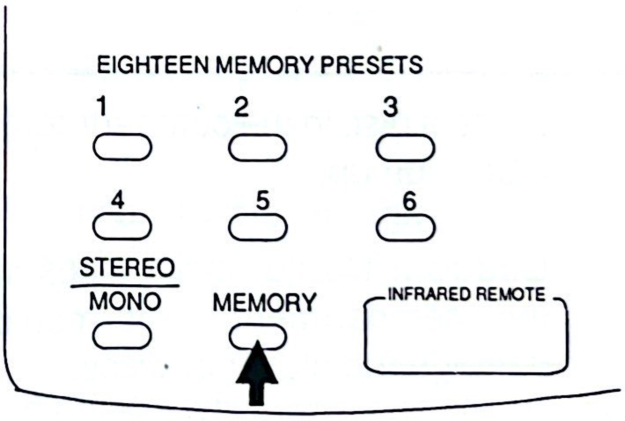
1. Press **AUTO**. **AUTO** appears on the display.	
2. Press either **TUNING ▼** or **▲**. The tuner automatically tunes to the next strong station. **STEREO** appears on the display when you tune to an FM stereo broadcast.	
3. To search for another station, press **TUNING ▼ or ▲** again. When the tuner reaches either end of the band, the tuner automatically starts searching again at the band's other end.	

Note: Automatic search tuning tunes to only strong stations. To tune to weaker stations, use manual tuning.

Memory Tuning

You can store up to 6 AM and 12 FM (6 FM1, 6 FM2) stations in your system's memory. Then you can instantly tune to a station by selecting the band (AM, FM1, or FM2) and pressing the desired memory preset button (**1** to **6**) on the system.

To store a station in memory, do the following:

1. Press **AM/FM** to select the desired band (AM, FM1, or FM2).	
2. Use manual or automatic tuning to tune to a station you want to store in memory.	
3. Press **MEMORY**. While **MEMORY** is displayed (about 5 seconds), press one of the six memory tuning buttons. This stores the station in memory under the selected tuning button number. **Note:** If you do not press a memory tuning button while **MEMORY** appears on the display, you must press **MEMORY** again.	 EIGHTEEN MEMORY PRESETS 1 2 3 4 5 6 STEREO MONO MEMORY INFRARED REMOTE
4. Repeat Steps 2-3 to store other stations in the same radio band. Repeat the entire procedure to store stations in another band.	

Note: This system holds the stored stations in memory for up to about 2 1/2 hours if you unplug the AC power cord or if a power failure occurs.

Scanned with CamScanner

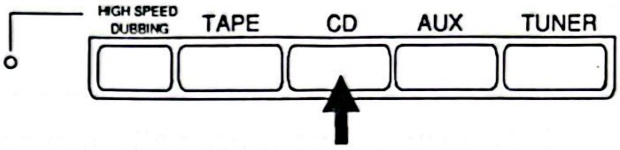
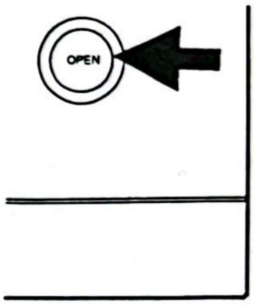
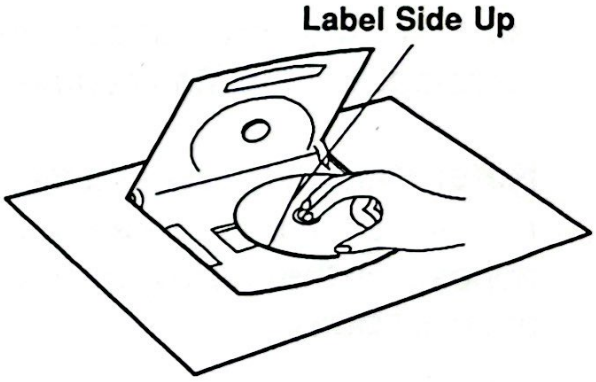
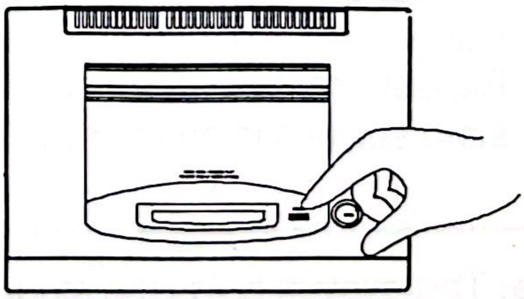
USING THE COMPACT DISC PLAYER

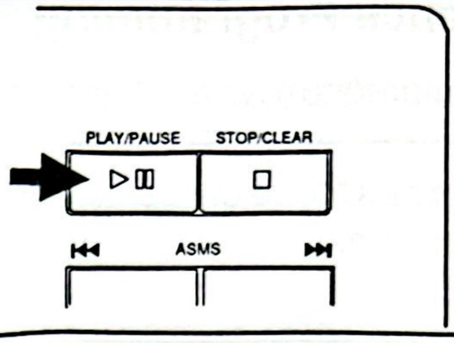
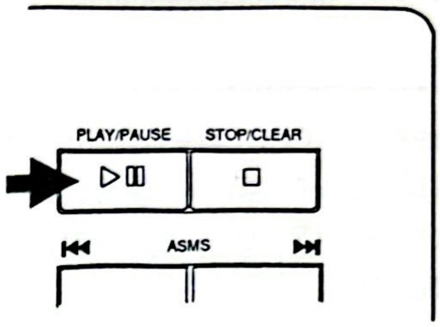
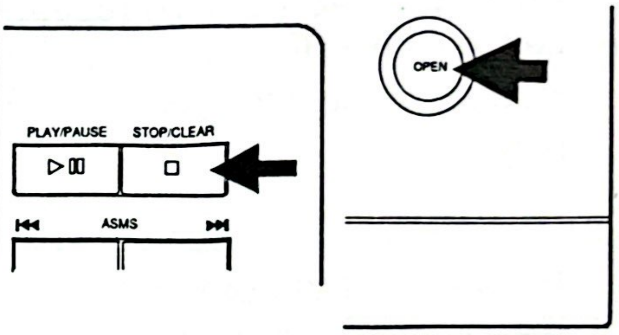
Your system's compact disc player lets you play discs with the touch of a button and program your discs to play in a selected order.

You can play standard 4 3/4" discs.

Normal CD Play

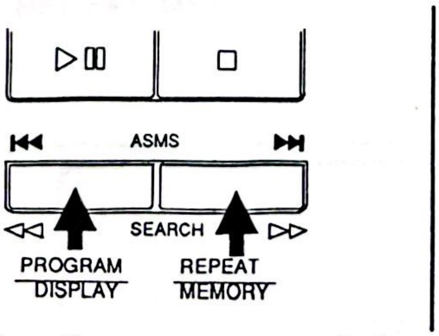
Follow these steps for normal CD play.

1. Press **CD**. `dISC` appears on the CD player's display.	
2. Press **OPEN**. The disc compartment's cover opens.	
3. Place a disc in the compartment, label side up. **Caution:** Do not stack discs in the compartment. This could damage the player or discs.	
4. Close the CD cover gently. After a few seconds, the display shows the total number of tracks on the disc.	

5. Press **PLAY/PAUSE**. Track 1 begins to play, the display shows the track number, and ▷ appears on the display.	 PLAY/PAUSE STOP/CLEAR ASMS
6. To temporarily stop play, press **PLAY/PAUSE**. ▷ flashes. Press **PLAY/PAUSE** again to resume play.	 PLAY/PAUSE STOP/CLEAR ASMS
7. To stop playing a disc before its end, press **STOP/CLEAR**. The display shows the total number of tracks. Then press **OPEN** to open the compartment and remove the disc.	 OPEN PLAY/PAUSE STOP/CLEAR ASMS

Automatic Search Music System

You can use the automatic search music system (ASMS) during regular or programmed play to quickly locate any track on a CD.


ASMS
SEARCH
PROGRAM
DISPLAY
REPEAT
MEMORY

To play the current track from the beginning, while the CD is playing, press **ASMS** ⏮ momentarily and release. Press the button repeatedly to go backward through the tracks to locate a particular one.

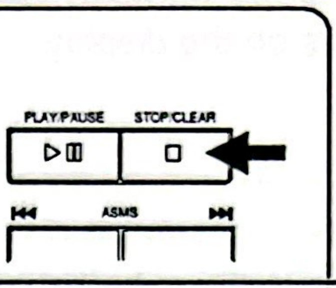
To play the next track from the beginning, while the CD is playing, press **ASMS** ⏭ momentarily and release. Press the button repeatedly to go forward through the tracks to locate a particular one.

You can also use the ASMS buttons to select a track before you begin regular play. In the stop mode, press **ASMS** ⏮ or ⏭ repeatedly to select the first track you want to play. Then press **PLAY/PAUSE.**

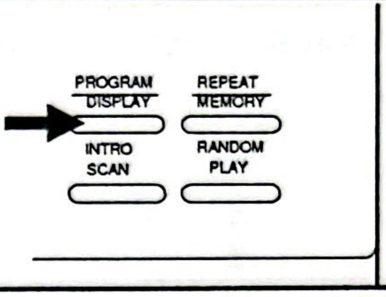
Sequence Programming

You can program up to 20 tracks to play in any order you choose.

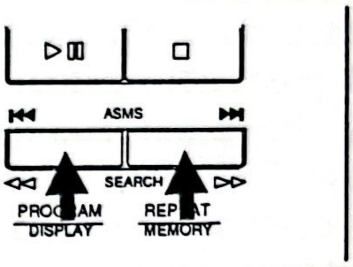
1. Press **STOP** to cancel any current function.


PLAY/PAUSE
STOP/CLEAR
ASMS

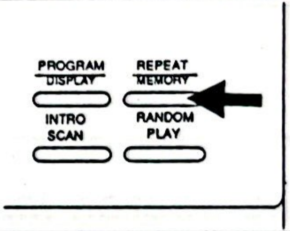
2. Press **PROGRAM/DISPLAY.** **0** flashes and a program position number (**P-01**) appears on the display.


PROGRAM
DISPLAY
REPEAT
MEMORY
INTRO
SCAN
RANDOM
PLAY

3. Press **ASMS** ⏮ or ⏭ repeatedly until the display shows the number of the track you want to play.


ASMS
SEARCH
PROGRAM
DISPLAY
REPEAT
MEMORY

4. Press **REPEAT/MEMORY** to store the track number in memory.

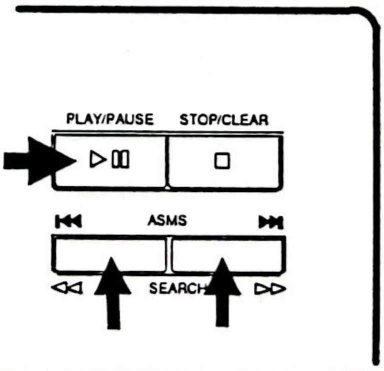

PROGRAM
DISPLAY
REPEAT
MEMORY
INTRO
SCAN
RANDOM
PLAY

5. Repeat Steps 3 and 4 for each track you want to program, up to 20 tracks.

   Note: Immediately after you program the 20th track, **OF** (Overflow) appears in the display.

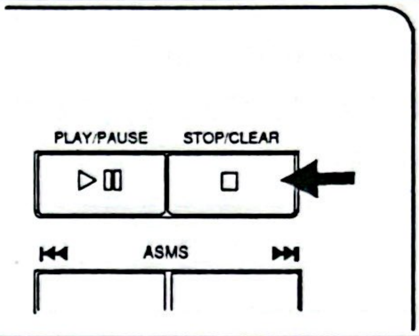
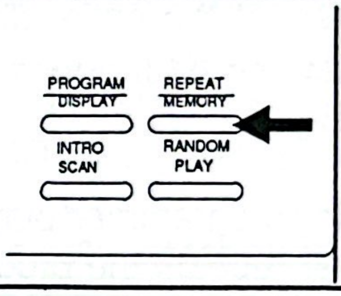
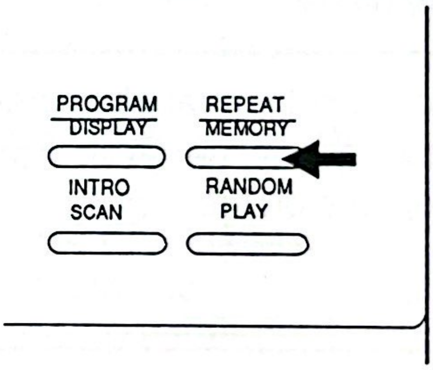
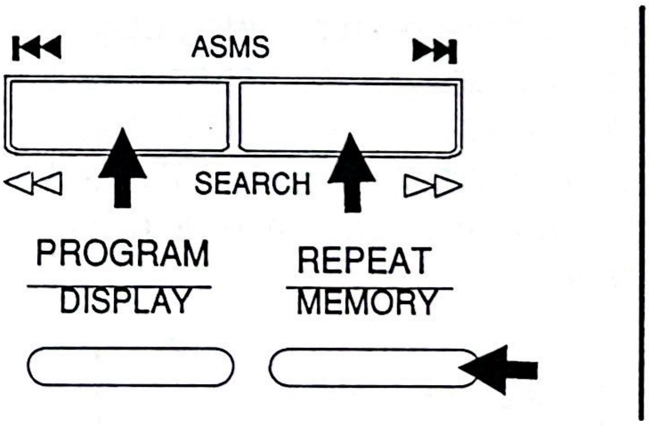
6. Press **PLAY/PAUSE.** The CD player plays the tracks in the order you programmed them.

   You can use **ASMS** ⏮ or ⏭ to search through the programmed selections.


PLAY/PAUSE
STOP/CLEAR
ASMS
SEARCH

Checking and Adding to the Program

To view the programmed sequence or to add tracks to the end of the sequence, follow these steps.

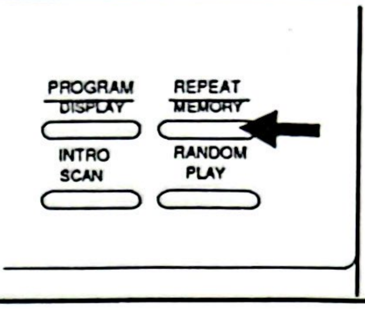
1. If you have started to play the programmed sequence, press **STOP**.	 PLAY/PAUSE STOP/CLEAR ASMS
2. Repeatedly press **REPEAT/MEMORY** to display the programmed tracks.	 PROGRAM DISPLAY REPEAT MEMORY INTRO SCAN RANDOM PLAY
3. To add to the end of the program, press **REPEAT/ MEMORY** until 0 appears on the display. Then follow Steps 3 through 5 in "Sequence Programming." To change a track in the sequence, press **REPEAT/MEMORY** until the display shows the track number you want to change. Select a new track number using **ASMS ⏮** and ⏭. Then press **REPEAT/ MEMORY.**	 PROGRAM DISPLAY REPEAT MEMORY INTRO SCAN RANDOM PLAY  ASMS SEARCH PROGRAM DISPLAY REPEAT MEMORY

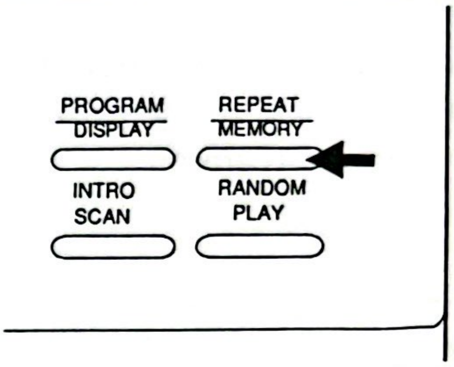
Clearing Memory

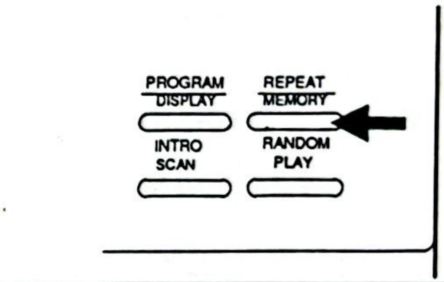
To clear the program, press **STOP** twice, **OPEN** once, or **POWER** once while the CD player is stopped.

Repeat Play

The CD player has two repeat play modes — repeat one (single track) and repeat all (the entire CD).

<table>
<tr><td>1. To repeat the current track, press REPEAT so ONE appears on the display.</td><td>
PROGRAM
DISPLAY
REPEAT
MEMORY
INTRO
SCAN
RANDOM
PLAY

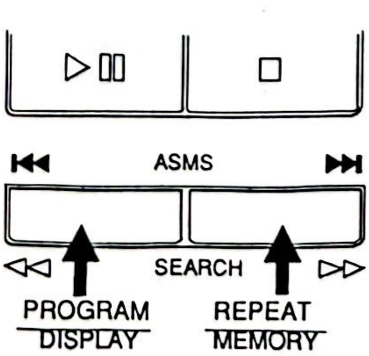
</td></tr>
<tr><td>2. To repeat the entire disc press REPEAT so ALL appears on the display.
During programmed play, the CD player repeats the programmed sequence.</td><td>
PROGRAM
DISPLAY
REPEAT
MEMORY
INTRO
SCAN
RANDOM
PLAY

</td></tr>
<tr><td>3. To cancel repeat play, press REPEAT so neither ONE nor ALL appears on the display.</td><td>
PROGRAM
DISPLAY
REPEAT
MEMORY
INTRO
SCAN
RANDOM
PLAY

</td></tr>
</table>

Audible Search

Use audible search during play to rapidly search forward or backward to locate a specific section of a track. During audible search, the CD plays at a lower volume and a higher speed.


▷▯▯
□
⏮
ASMS
⏭
◁◁
SEARCH
▷▷
PROGRAM
DISPLAY
REPEAT
MEMORY

To search forward through the track(s), press and hold **ASMS ⏭**. The CD plays at a faster speed and lower volume. When you release the button, the track plays normally from its current positiomn.

To search backward through the track(s), press and hold **ASMS ⏮**. The CD plays in reverse at a faster speed and lower volume. When you release the button, the track plays normally from its current position.

Automatic Random Play

When you use the automatic random play feature, the CD player automatically selects and plays a random sequence of all tracks on the disc (up to 99 tracks).

To use this feature, press **RANDOM PLAY** on the CD player's front panel.

To return to the normal playback sequence, press **RANDOM PLAY** again.

Press **STOP** to stop play and clear the random sequence.

Intro Scan

The intro scan feature lets you play the first 10 seconds of every track on a disc.

To use this feature, simply press **INTRO SCAN**. `INTRO` appears on the display.

If you want to listen to a track to the end, press **INTRO SCAN** so `INTRO` disappears from the display before the CD player scans the next track.

Note: You can use **INTRO SCAN** with both programmed and random sequences.

Using Display

During Play:

- Press **PROGRAM/DISPLAY** during play to display the remaining time of the current track.

- Press **PROGRAM/DISPLAY** again to display the CD's total remaining time.

  Note: The display does not show the CD's total remaining time if the CD has more than 31 tracks.

- Press **PROGRAM/DISPLAY** once more to display the elapsed time of the current track.

During Programmed Play:

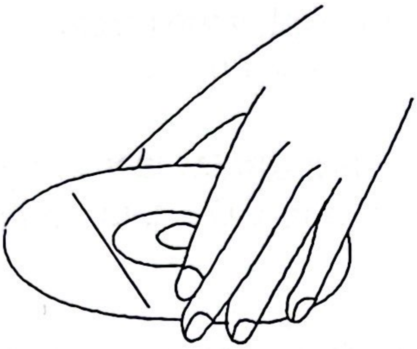
- Press **PROGRAM/DISPLAY** during programmed play to display the current program position number.

- Press **PROGRAM/DISPLAY** again to display the total remaining time of the programmed sequence.

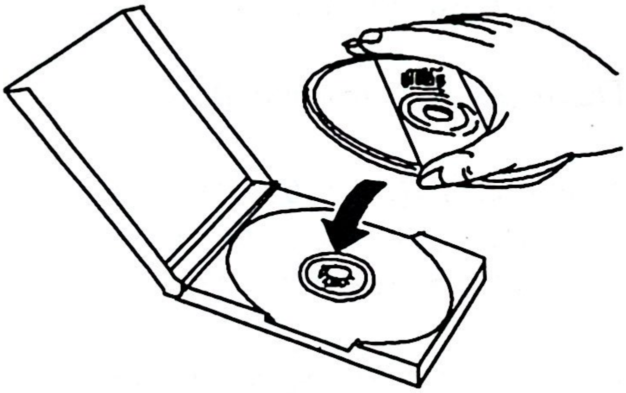
- Press **PROGRAM/DISPLAY** once more to display the elapsed time of the current track.

Disc Handling

- Treat the CD surface with care. Handle a CD by the edges to avoid fingerprints.

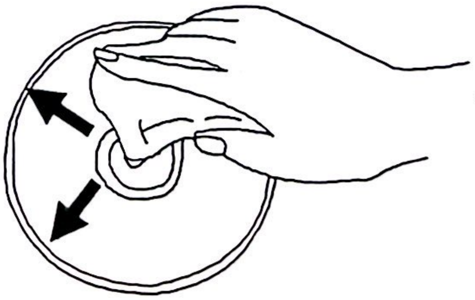


- Keep the CD dry. A water drop can act as a lens and affect the laser beam focus.
- Keep the disc in its protective case when it is not in use.



Cleaning Discs

Always keep discs clean by gently wiping them with a soft cloth. Wipe from the center toward the outer edge. Do not wipe in a circular pattern. To clean, use a Radio Shack Deluxe CD Cleaner, Cat. No. 42-116.



Caution: Do not use record cleaner or antistatic fluids on discs. Never clean discs with benzene, thinner, or other volatile solvents. This could permanently damage the disc surface.

Precautions for Use

- CDs that can be played on this player have this mark on them:

COMPACT
disc
DIGITAL AUDIO

- This CD player has a wide dynamic range. If you turn up the volume too high during soft (low volume) parts of the music, you might damage your headphones or loudspeakers when a sudden loud passage occurs.

- During playback, a sudden shock or jolt could make the speed of the CD's rotation change suddenly and produce some noise. This is not a malfunction.

- If you move the system from a very cold room to a warmer one, moisture can condense on the pickup lens, preventing proper disc play. If this happens, wait about 30 minutes before you resume play.

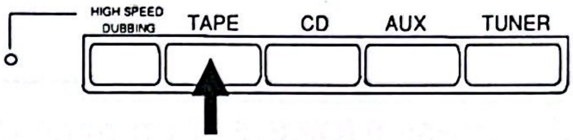
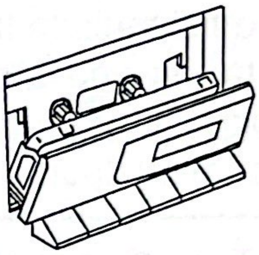
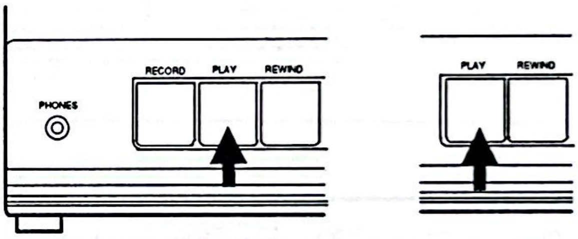
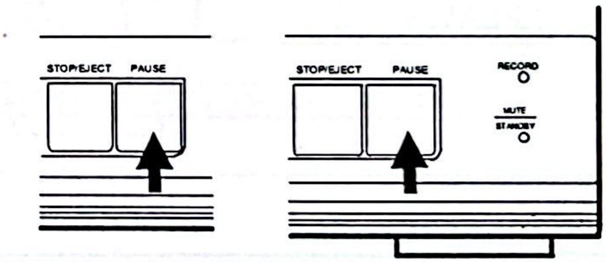
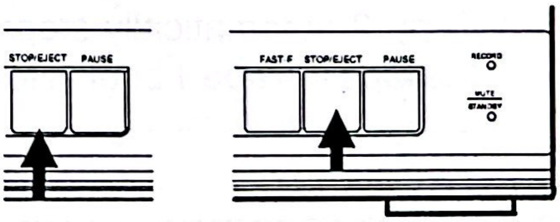
- Do not place foreign objects in the disc drawer. Doing so can damage the drive mechanism.

USING THE CASSETTE DECK

For best performance, use only normal bias (ferric) tapes in this cassette deck.

Normal Playback

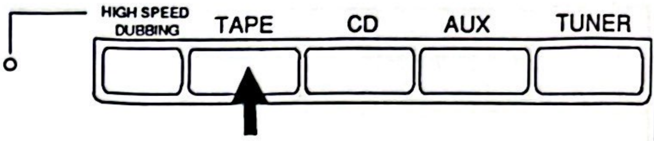
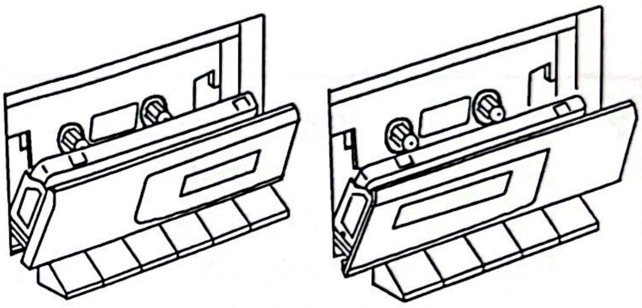
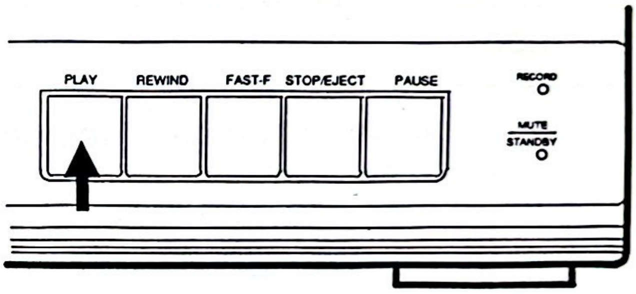
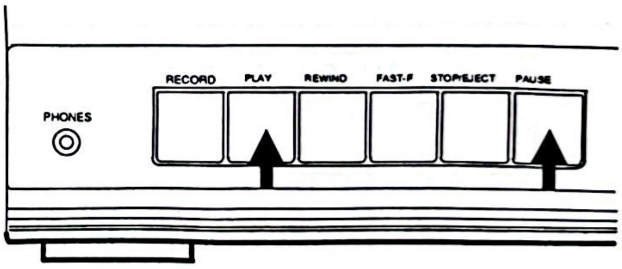
Follow these steps for normal tape playback.

1. Press **TAPE**.	 HIGH SPEED DUBBING TAPE CD AUX TUNER
2. Press **STOP/EJECT** on either deck and load a pre-recorded cassette with the tape path down and the full reel to the left. The side facing you is the side that plays. Gently close the cassette compartment door.	
3. Press **PLAY** on the deck you selected.	 PHONES RECORD PLAY REWIND PLAY REWIND
4. Press **PAUSE** to temporarily stop play. Press **PAUSE** again to resume playback.	 STOP/EJECT PAUSE STOP/EJECT PAUSE RECORD MUTE STANDBY
5. Press **STOP/EJECT** to stop the tape. Press **STOP/EJECT** again to eject the tape.	 STOP/EJECT PAUSE FAST F STOP/EJECT PAUSE RECORD MUTE STANDBY

Note: If Tape 1 and Tape 2 play at the same time, Tape 2 has priority and Tape 1 is muted.

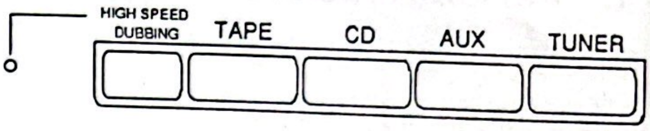
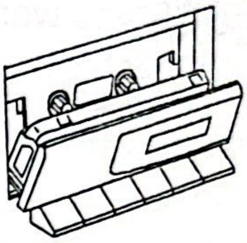
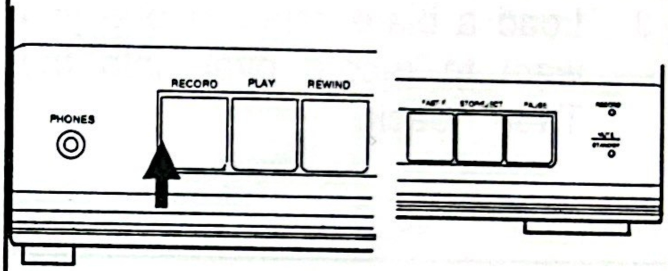
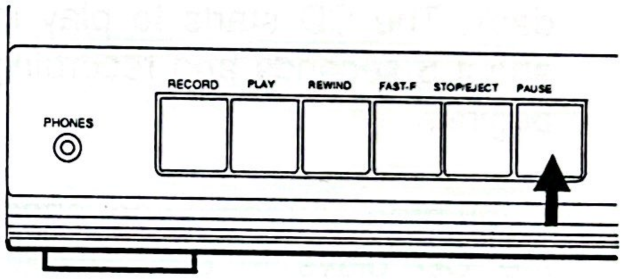
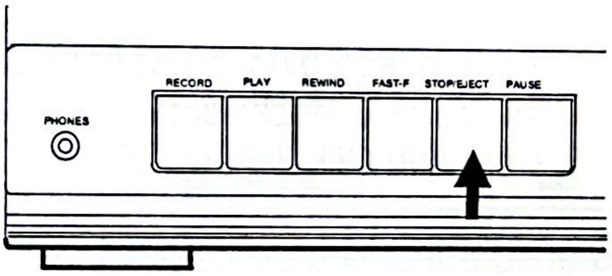
Consective Tape Play

You can play one side of a tape in Tape 2 and then automatically play one side of a tape in Tape 1.

1. Press **TAPE.**	 HIGH SPEED DUBBING TAPE CD AUX TUNER
2. Press **STOP/EJECT** on each deck and load two pre-recorded cassettes with the tape paths down and the full reels to the left. The sides facing you are the sides that play. Close the cassette compartment doors.	
3. Press Tape 2's **PLAY** button.	 PLAY REWIND FAST-F STOP/EJECT PAUSE RECORD MUTE STANDBY
4. Press Tape 1's **PAUSE** and then **PLAY.**	 PHONES RECORD PLAY REWIND FAST-F STOP/EJECT PAUSE
5. When the tape in Tape 2 ends, Tape 2 automatically stops and the tape in Tape 1 begins to play.	

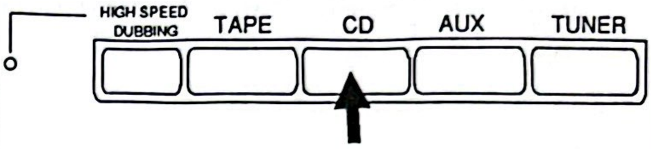
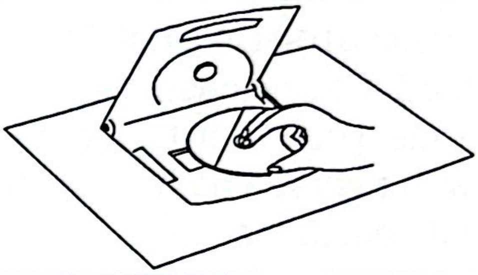
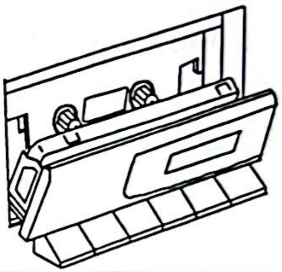
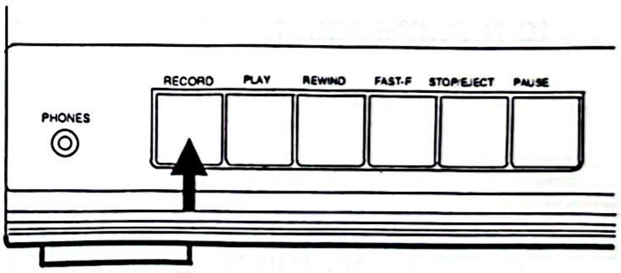
Recording

You can record the system's sound sources (CD, radio, etc.) on the Tape 1 deck.

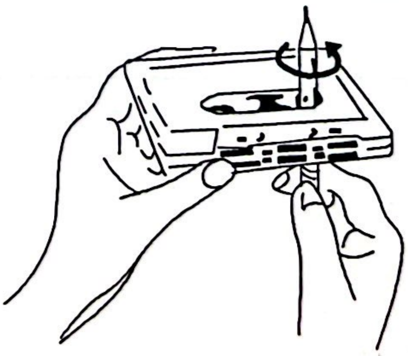
1. Press the function selector button for the source you want to record.	 HIGH SPEED DUBBING TAPE CD AUX TUNER
2. Press **STOP/EJECT** of Tape 1 and load a blank cassette (or a cassette you want to record over) with the tape path down and the full reel to the left.	
3. Press **RECORD.** The **PLAY** button automatically goes down and the **RECORD** indicator lights.	 PHONES RECORD PLAY REWIND
4. To temporarily stop recording, press **PAUSE.** Press **PAUSE** again to resume recording.	 PHONES RECORD PLAY REWIND FAST-F STOP/EJECT PAUSE
5. To stop recording, press **STOP/EJECT.** Press **STOP/EJECT** again to eject the tape.	 PHONES RECORD PLAY REWIND FAST-F STOP/EJECT PAUSE

Synchro-Start CD Recording

Synchro-start CD recording makes it easy to record a CD. To record a CD using this method, follow these steps.

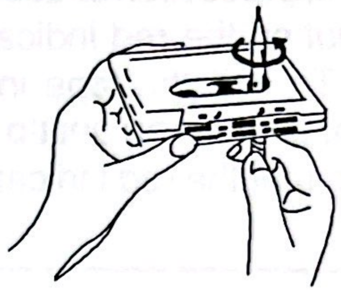
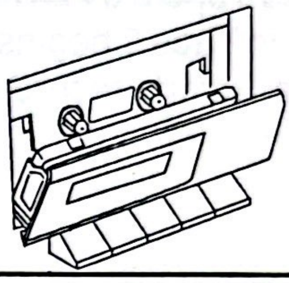
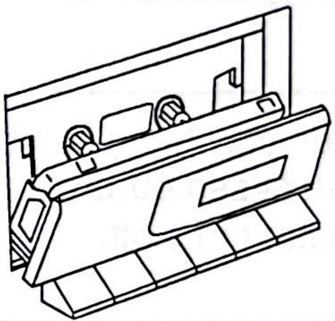
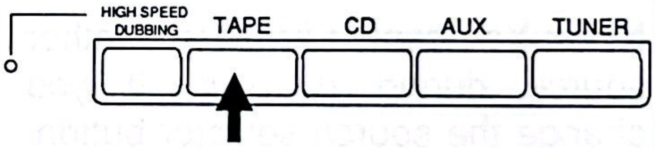
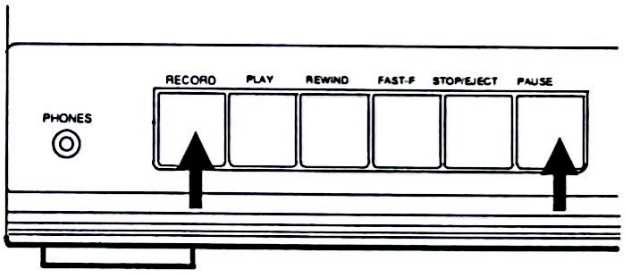
1. Press **CD** to select the CD player.	 HIGH SPEED DUBBING TAPE CD AUX TUNER
2. Load the CD you want to record.	
3. Load a blank tape, or one you want to record over, into the Tape 1 deck.	
4. Press **RECORD** on the Tape 1 deck. The CD starts to play in about 5 seconds and recording begins. If you programmed a sequence, the CD plays in programmed order. To stop recording, press **STOP** on the Tape 1 deck; both the cassette and CD players will stop.	 RECORD PLAY REWIND FAST-F STOP/EJECT PAUSE PHONES

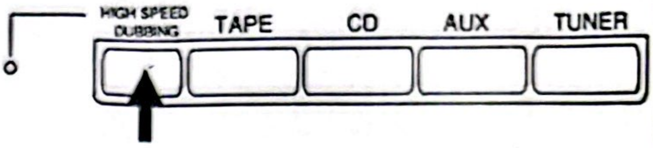
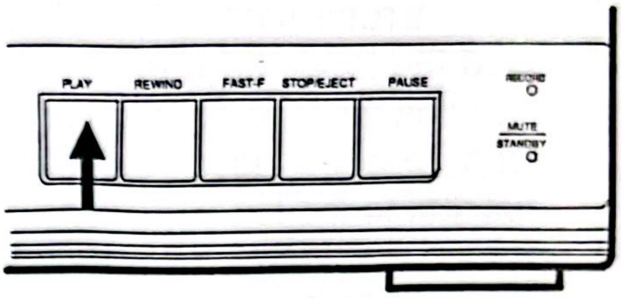
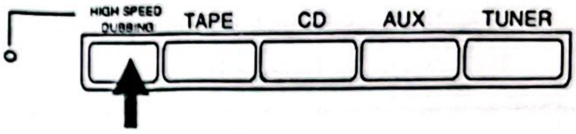
To ensure that you do not miss the first part of the CD's first track, use your finger or a pencil to manually wind the cassette tape until the tape's dark (magnetic) part of the tape enters the open end of the cassette.



Dubbing

Follow these steps to dub (copy) cassette tapes.

1. If you will copy a complete tape, use your finger or a pencil to manually wind both tapes until their dark (magnetic) part enters the cassettes' open end.	
2. Press **STOP/EJECT** of Tape 2 and load the tape you want to copy. Position the tape so the side you want to copy faces you with its full reel to the left.	
3. Press **STOP/EJECT** of Tape 1 and load a blank tape (or a tape you want to record over). Position the tape so the side on which you want to record faces you with its full reel to the left.	
4. Press **TAPE**.	 HIGH SPEED DUBBING TAPE CD AUX TUNER
5. Press Tape 1's **PAUSE** button. Then press **RECORD**. The **PLAY** button automatically goes down and the **RECORD** indicator lights.	 RECORD PLAY REWIND FAST-F STOP/EJECT PAUSE PHONES

6. Select the dubbing speed. If you want to listen to the tape as you dub it, press **HIGH SPEED DUBBING** to *out* so the red indicator turns off. To dub the tape in half the time, press **HIGH SPEED DUBBING** *in* so that the red indicator lights.	 HIGH SPEED DUBBING TAPE CD AUX TUNER
7. Press Tape 2's **PLAY** button. The tape in Tape 2 begins to play and Tape 1 starts recording.	 PLAY REWIND FAST-F STOP/EJECT PAUSE RECORD MUTE STANDBY
8. After you finish dubbing, press **HIGH SPEED DUBBING.** The red indicator turns off.	 HIGH SPEED DUBBING TAPE CD AUX TUNER

Note: You cannot listen to another source during dubbing. If you change the source selector button, the cassette deck records the selected source.

Using Fast-Forward and Rewind

Press **FAST-F** to rapidly advance the tape. Press **REWIND** to quickly rewind the tape. At the desired point, press **STOP/EJECT**.

Caution: Changing directly from fast-forward to rewind or from rewind to fast-forward might damage the tape. Always press **STOP/EJECT** before you change the tape's direction.

Auto Stop

When a tape ends, the cassette deck automatically turns off. This provides extra convenience and protects the tape and tape heads from added wear.

Tape Tips and Techniques

The following suggestions will help you get the best performance from your cassettes and cassette deck.

Using the Right Tape

Using the right tape is important for good recordings. To take full advantage of your music system, use only high-quality tapes, such as XR Premium Ferric tapes. Your local Radio Shack store offers a complete selection of blank tapes.

Your music system works best with normal bias (ferric) tapes. Do not use CrO2 (chrome) or other Type IV(metal) tapes for recording.

Storing Your Cassettes

Use these suggestions when you store your cassettes:

- Keep the cassettes away from excessive dust and dirt.

- Do not expose the cassettes to moisture or high humidity.

- Keep the cassettes away from strong magnetic fields generated by other electronic devices (transformers, motors, and so on).

- Store the cassettes in their protective plastic containers. Your local Radio Shack store offers a complete selection of tape storage containers.

Erasing a Tape

Each time you record, you automatically erase the previous recording.

To erase a tape without making a new recording, load the cassette into the Tape 1 compartment and press **TAPE**. Then, press **RECORD**. The tape is erased as it passes the record head.

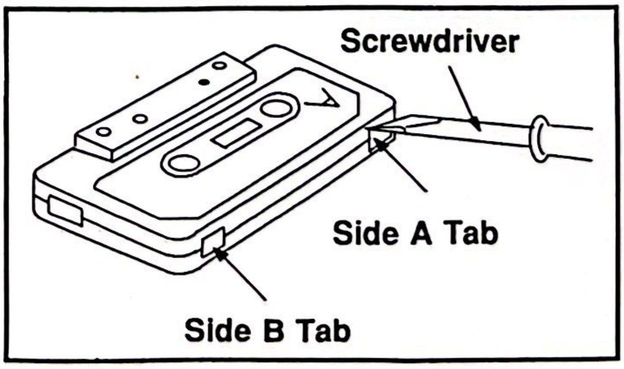
If you want to quickly erase several tapes, you might prefer to use a bulk tape eraser, available at your local Radio Shack store. It erases both sides of a tape in seconds.

To erase only a portion of a tape, or only one side of a tape, you must use the first method described.

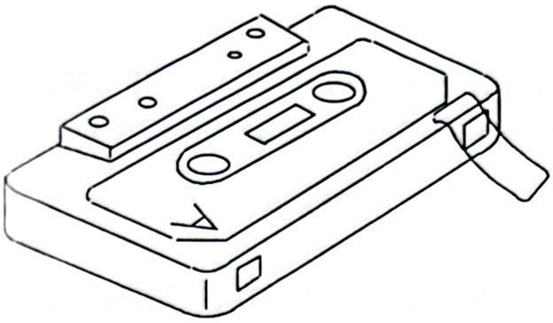
Accidental Erasure Protection

Cassettes have erase-protection tabs. When in place, these tabs let you record on the tape. Once you remove these tabs, you cannot press **RECORD**.

To avoid erasing or recording over Side A (or 1), use a screwdriver to break off the Side A tab. To protect Side B (or 2), remove the Side B tab.



To record on the tape again, place tape over the tab's hole.

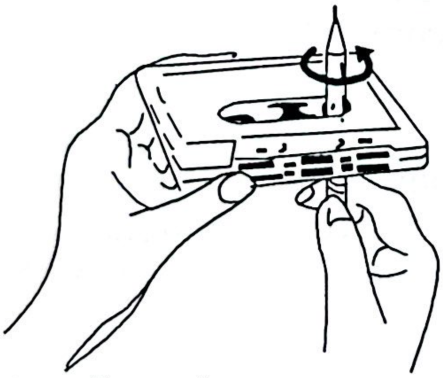


Note: Removing the tab does not protect against bulk tape erasure.

Caution: When using a cassette that has had the erase-protection tabs removed, do not try to force down RECORD. Doing so might damage the recording mechanism.

Tape Tension

Before you load a cassette, take up any slack in the tape by winding the cassette with your finger or a pencil. Avoid touching the tape.



Caution: If you do not remove slack, the tape might tangle in the tape mechanism.

After you play a cassette several times, the tape can become tightly wound on either hub. This can cause tape distortion. Before you play the tape again, fast-forward the entire tape. Then completely rewind it.

Long-Playing Cassettes

We recommend that you do not use long-playing cassettes (longer than 90 minutes). Long-playing cassettes use very thin tape, which can easily break or become tangled in the tape mechanism.

Cleaning the Tape Mechanism

After repeated use of the cassette deck, dust, lint, and tape oxides accumulate on the deck's tape-handling parts. For best performance and sound quality, clean all tape mechanisms after about every 20 hours of use. You can use recorder cleaner and cleaning swabs or a convenient head-cleaning cassette.

You will find a complete selection of cassette maintenance products at your local Radio Shack store.

Tape Head Demagnetizing

To prevent unwanted noise, use a tape-head demagnetizer to remove residual magnetism after about 20 hours of play. Tape head demagnetizers are available at your local Radio Shack store.

Caution: Never touch the record head with any kind of metal object. This could magnetize or damage the record head.

CARE AND MAINTENANCE

Your Modulaire 580 AM/FM Stereo Component System is an example of superior design and craftsmanship. The following suggestions will help you care for your music system so you can enjoy it for years.

Keep the system dry. If it does get wet, wipe it dry immediately. Liquids can contain minerals that corrode the electronic circuits.

Use and store the music system only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.

Handle the music system gently and carefully. Dropping it can damage the circuit boards and cases and can cause the system to work improperly.

Keep the music system away from dust and dirt, which can cause premature wear of parts.

Wipe the music system with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the system.

Use only fresh batteries of the recommended size and type in the system's remote control. Always remove old or weak batteries. They can leak chemicals that destroy electronic circuits.

Modifying or tampering with the music system's internal components can cause a malfunction and might invalidate the system's warranty and void your FCC authorization to operate it. If the system is not performing as it should, take it to your local Radio Shack store for assistance.

SPECIFICATIONS

AMPLIFIER/RECEIVER

Total Harmonic Distortion at 500 mW	Less than 1.0%
Output Power at 10% THD	5.0 W

FM TUNER

Frequency Range	87.5 – 107.9MHz
Sensitivity (IHF Usable)	3.2 µV Typical
Signal-to-Noise Ratio (1 mV Input)	66 dB
Total Harmonic Distortion	2%
Image Rejection	26 dB
Selectivity (1 mV input)	33 dB
Stereo Separation at 1 kHz	35 dB

AM TUNER

Frequency Range	520 – 1710 kHz
Sensitivity (20 dB S/N)	450 µV/m
Image Rejection	35 dB

TAPE

Total Harmonic Distortion	1.5%
Frequency Response	60 – 15,000 Hz
Signal-to-Noise Ratio	50 dB
Wow and Flutter (WRMS/JIS)	0.1%
Channel Crosstalk	50 dB
Rewind and Fast-Forward Time (C-60)	110 Seconds

CD

Programmable Memory	20 Tracks
Digital Filter	2 Times Oversampling

GENERAL

Power Requirements	120 V AC, 60 Hz
Dimensions:	
Cassette Deck	5 1/8 x 11 x8 7/8 Inches (HWD)
AM/FM Stereo Receiver/CD Player	5 5/16 x 11 x 8 7/8 Inches (HWD)
Speaker Box	10 1/4 x 5 7/8 x 6 3/4 Inches (HWD)

RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 1 year from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

We Service What We Sell

RADIO SHACK
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Fort Worth, Texas 76102

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